

Supplemental Table 1. Table that demonstrated the API ZYM reading table, which is cited from the API ZYM user guidance.

No.	ENZYME ASSAYED FOR	SUBSTRATE	pH	RESULT	
				POSITIVE	NEGATIVE
1	Control			Colorless or color of the sample if it has an intense coloration	
2	Alkaline phosphatase	2-naphthyl phosphate	8.5	Violet	Colorless or Very pale yellow *
3	Esterase (C 4)	2-naphthyl butyrate	6.5	Violet	
4	Esterase Lipase (C 8)	2-naphthyl caprylate	7.5	Violet	
5	Lipase (C 14)	2-naphthyl myristate	"	Violet	
6	Leucine arylamidase	L-leucyl-2-naphthylamide	"	Orange	
7	Valine arylamidase	L-valyl-2-naphthylamide	"	Orange	
8	Cystine arylamidase	L-cystyl-2-naphthylamide	"	Orange	
9	Trypsin	N-benzoyl-DL-arginine-2-naphthylamide	8.5	Orange	
10	α -chymotrypsin	N-glutaryl-phenylalanine-2-naphthylamide	7.5	Orange	
11	Acid phosphatase	2-naphthyl phosphate	5.4	Violet	
12	Naphthol-AS-BI-phosphohydrolase	Naphthol-AS-BI-phosphate	"	Blue	
13	α -galactosidase	6-Br-2-naphthyl- α -D-galactopyranoside	"	Violet	
14	β -galactosidase	2-naphthyl- β -D-galactopyranoside	"	Violet	
15	β -glucuronidase	Naphthol-AS-BI- β -D-glucuronide	"	Blue	
16	α -glucosidase	2-naphthyl- α -D-glucopyranoside	"	Violet	
17	β -glucosidase	6-Br-2-naphthyl- β -D-glucopyranoside	"	Violet	
18	N-acetyl- β -glucosaminidase	1-naphthyl-N-acetyl- β -D-glucosaminide	"	Brown	
19	α -mannosidase	6-Br-2-naphthyl- α -D-mannopyranoside	"	Violet	
20	α -fucosidase	2-naphthyl- α -L-fucopyranoside	"	Violet	